

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 October 2003 (30.10.2003)

PCT

(10) International Publication Number
WO 03/089935 A1

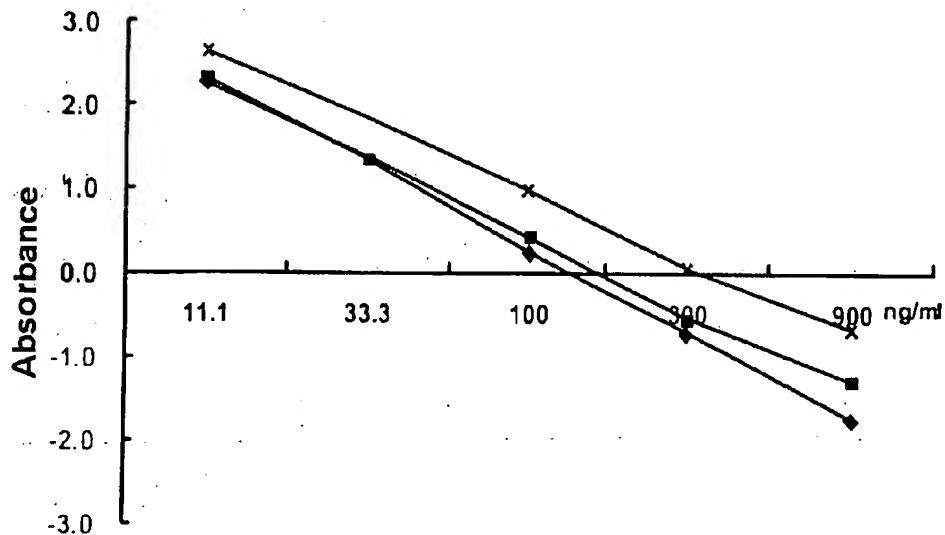
- (51) International Patent Classification⁷: G01N 33/68 (74) Agent: LEE, Won-Hee; 8th Fl., Sung-ji Heights II, 642-16, Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).
- (21) International Application Number: PCT/KR02/01975 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 22 October 2002 (22.10.2002)
- (25) Filing Language: Korean (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (26) Publication Language: English
- (30) Priority Data:
2002/21488 19 April 2002 (19.04.2002) KR
- (71) Applicant (*for all designated States except US*): REGEN BIOTECH, INC. [KR/KR]; C9231 KIST, 39-1 Hawolgok-dong, Sungbuk-ku, Seoul 136-791 (KR).
- (72) Inventors; and
(75) Inventors/Applicants (*for US only*): KIM, In-San [KR/KR]; #106-908 Dongsu Town, 1040 Maeho-dong, Soosung-ku, Taegu 706-140 (KR). BAE, Jong-Sub [KR/KR]; #1940-2 Songhyeon 1-dong, Dalseo-ku, Taegu 704-824 (KR).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: THE METHOD FOR MEASURING THE AMOUNT OF β Ig-H3 PROTEIN AND DIAGNOSTIC KIT USING THE SAME



WO 03/089935 A1

(57) **Abstract:** The present invention relates to the method for measuring the amount of β Ig-h3 protein and diagnostic kit using the same. Particularly, it relates to the method for measuring the amount of β Ig-h3 protein in the body fluids by specific binding reaction between β Ig-h3 protein or recombinant proteins of fas-1 domain in the β Ig-h3 protein (including their fragments or their derivatives) and their ligands and relates to diagnostic kit for the renal diseases, hepatic diseases, rheumatoid arthritis or cardiovascular diseases comprising β Ig-h3 protein or recombinant proteins of fas-1 domain in the β Ig-h3 protein (including their fragments or their derivatives) and their ligands. The method and kit of the present invention can be effectively used as sensitive diagnostic method for the extent of damage or progress of the renal diseases, hepatic diseases, rheumatoid arthritis or cardiovascular diseases.